

# Abhir Karande

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## Education

University of Virginia (UVA), School of Engineering and Applied Science - 2020-2024 (Freshman)

- o Rodman Scholar, Intended Computer Science Major

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**Programming Languages:** Java, Python, R, JavaScript, ReactJS, AngularJS, Dart/Flutter, HTML, SQL, PHP

**Technical Skills:** Linux, MySQL, FireBase, Git, GitHub, MatLab

**Relevant Coursework:** CS 1110 (Intro to Programming), CS 2330 (Digital Logic Design), Forge Source Software Engineering Course (JavaScript, ReactJS, HTML, CSS & GitHub)

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## Work Experience

- UVA Engineering International Program (EIP) Development Intern (November 2020 - Present)
  - o Maintaining EIP website and developing a web tool to help students plan for studying abroad
  - o Using AngularJS, TypeScript, SQL, PHP, HTML, CSS, and JavaScript

## Personal Projects

*Computer Science – Data Science, Machine Learning/Artificial Intelligence*

- “Developing and Comparing Lexicon, Machine Learning, and Deep Learning models for Sentiment Classification of Consumer Reviews”
  - o Ocean Lakes Math & Science Academy Senior Project (January 2020-March 2020)
  - o Developed three models in Python and compared accuracy and efficiency in classifying consumer review sentiment.
- “Predictive Analytics: Developing a Forecasting Model for Sea Level Rise”
  - o Created Auto-Regressive Integrated Moving Average (ARIMA) time series and regression models in R for predicting short (month-by-month) and long-term (6 year) sea level by location (March 2019-May 2019)
  - o Recognized with Intel Society for Science & Public Award for Community Innovation
  - o Recognized with Certificate of Outstanding Achievement from the American Meteorological Society
- “Object Recognition with NAO Humanoid Robot via a Convolutional Neural Network.”
  - o Research Intern at Old Dominion University Vision-Lab for Artificial Intelligence and Computer Vision (July 2018-September 2018)
  - o Created Python program enabling a Humanoid Robot to detect and vocally classify objects

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## Programming Competitions

- 2nd Place - Scientific Programming WHRO Great Computer Challenge, used Python (2020)
  - 1st Place - Business Object-Oriented Programming WHRO Great Computer Challenge, used Java (2018)
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## Leadership

- Google Developer Student Club Computer Science and Outreach Consultant Leader (September 2020-Present)
  - o Helping over 100 members implement ideas into working software and offering advice on how to use frameworks including TensorFlow, Flutter, FireBase, and BigQuery
  - o Providing software solutions and integration to other clubs and organizations affiliated with UVA
- GenCyber Cybersecurity Summer Camp Teaching Assistant (July 2017-Present)
  - o Teaching Cyber Security and Software skills including Access Control, Password Cracking, Traffic Tracing, and Network Mapping for Reconnaissance to 45-50 middle school students and 15-20 teachers from various Hampton Roads schools each year (2017-2020)